

FORM PTO-1390 (REV. 02-2005)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 19006.005
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) To Be Assigned <b>10/526487</b>
INTERNATIONAL APPLICATION NO. PCT/EP2003/009756	INTERNATIONAL FILING DATE 2 September 2003 (02.09.2003)	PRIORITY DATE CLAIMED 4 September 2002 (04.09.2002)		
TITLE OF INVENTION: Improved Methods for the Synthesis of Nucleic Acids**				
APPLICANT(S) FOR DO/EO/US Guido KRUPP				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))        a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).        b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.        c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).        a. <input type="checkbox"/> is attached hereto.        b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))        a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).        b. <input type="checkbox"/> have been communicated by the International Bureau.        c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.        d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>				
Items 11 to 20 below concern document(s) or information included:				
<p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information (list):        a) an English translation of the Published International Application; b) a copy of the Published International Application (WO 2004/022574 A2); c) a copy of the Published International Search Report (WO 2004/022574 A3); d) a copy of Form PCT/IB/308 (Notice Informing the Applicant of the Communication of the International Application to the Designated Offices; e) a copy of Form PCT/IB/304 (Notification Concerning Submission or Transmittal of Priority Document); f) a copy of Form PCT/IB/332 (Information Concerning Elected Offices Notified of Their Election; and g) a copy of Form PCT/IPEA/416 (International Preliminary Examination Report).</p>				

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) To Be Assigned <b>07526487</b>		International Application No. PCT/EP2003/009756		ATTORNEY'S DOCKET NUMBER 19006.005																										
<p>21. <input checked="" type="checkbox"/> The following fees are submitted:</p> <table> <tr> <td><input checked="" type="checkbox"/> a) Basic national fee.....</td> <td>\$300.00</td> <td>Applicant Use</td> <td>Office Use Only</td> </tr> <tr> <td><input checked="" type="checkbox"/> b) Examination fee.....</td> <td>\$200.00</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> c) Search fee.....</td> <td>\$500.00</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>Total of above calculations = \$1,000.00</b></td> <td></td> <td></td> </tr> </table>						<input checked="" type="checkbox"/> a) Basic national fee.....	\$300.00	Applicant Use	Office Use Only	<input checked="" type="checkbox"/> b) Examination fee.....	\$200.00			<input checked="" type="checkbox"/> c) Search fee.....	\$500.00			<b>Total of above calculations = \$1,000.00</b>												
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<p>Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</p> <table> <thead> <tr> <th>Total Sheets</th> <th>Extra Sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>Rate</th> <th></th> </tr> </thead> <tbody> <tr> <td>14 - 100=</td> <td>0/50=</td> <td>-0-</td> <td>X \$250.00</td> <td>\$ -0-</td> </tr> </tbody> </table>						Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	Rate		14 - 100=	0/50=	-0-	X \$250.00	\$ -0-															
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<p>Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e))</p> <table> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> <th></th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>27 - 20 =</td> <td>7</td> <td>x \$ 50.00</td> <td>\$ 350.00</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>x \$ 200.00</td> <td>\$</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$ 360.00</td> <td>\$</td> </tr> <tr> <td colspan="4"><b>TOTAL OF ABOVE CALCULATIONS = \$1,480.00</b></td> <td></td> </tr> </tbody> </table>						CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		Total claims	27 - 20 =	7	x \$ 50.00	\$ 350.00	Independent claims	2 - 3 =	0	x \$ 200.00	\$	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$ 360.00	\$	<b>TOTAL OF ABOVE CALCULATIONS = \$1,480.00</b>				
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<p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.</p> <table> <tr> <td></td> <td>+</td> <td>\$</td> </tr> <tr> <td colspan="3"><b>SUBTOTAL = \$1,480.00</b></td> </tr> </table>							+	\$	<b>SUBTOTAL = \$1,480.00</b>																					
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<p>Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +</p> <table> <tr> <td colspan="3"><b>TOTAL FEES ENCLOSED = \$1,480.00</b></td> </tr> <tr> <td colspan="3"></td> </tr> </table>						<b>TOTAL FEES ENCLOSED = \$1,480.00</b>																								
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U.S. APPLICATION NO. (If known, see 37 CFR 1.5) To Be Assigned <b>101526487</b>	International Application No. PCT/EP2003/009756	ATTORNEY'S DOCKET NUMBER 19006.005
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- a.  A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.
- b.  Please charge my Deposit Account No. 50-2387 in the amount of \$1,480.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2387. A duplicate copy of this sheet is enclosed.
- d.  Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE: Where an appropriate time limit under 37 CFR 1.496 has not been met, a petition to revive (37 CFR 1.137(a)) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO:

**Customer No. 28381**

Rachel L. Adams

SIGNATURE

Rachel L. Adams (Reg. No. 54,660)

Date: March 4, 2005

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Rachel L. Adams, Ph.D.  
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555 Twelfth Street, NW  
Washington, DC 20004-1206

March 4, 2005

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: U.S. National Phase Application  
Based on International Application No. PCT/EP2003/009756  
International Filing Date: September 2, 2003  
Appln. No.: To Be Assigned  
Filed: Herewith  
Title: **Improved Methods for the Synthesis of Nucleic Acids**  
Applicant: Guido KRUPP  
Atty. Docket: 19006.005

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office (PTO):

1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371 (in duplicate);
2. an English translation of the Published International Application entitled:

**Improved Methods for the Synthesis of Nucleic Acids**

and naming as inventor:

**Guido KRUPP;**

the application consisting of:

- a. a specification containing:
  - (i) 8 pages of a description prior to the claims;
  - (ii) 2 pages of claims (27 claims);
  - (iii) a one (1) page abstract;
  - (iv) 3 sheets of drawings (Figures 1, 2, and 3);

Commissioner for Patents  
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3. a copy of Published International Application (WO 2004/022574 A2);
4. a copy of Published International Search Report (WO 2004/022574 A3);
5. a copy of Form PCT/IB/308 (Notice Informing the Applicant of the Communication of the International Application to the Designated Offices);
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7. a copy of Form PCT/IB/332 (Information Concerning Elected Offices Notified of Their Election);
8. a copy of Form PCT/IPEA/416 (International Preliminary Examination Report); and
9. two (2) return postcards.

Applicant requests that \$1,450.00 for the following fees be charged to Deposit Account No. 50-2387, referencing matter number 19006.005:

<u>\$300.00</u>	basic filing fee
<u>\$200.00</u>	examination fee
<u>\$500.00</u>	search fee
<u>\$350.00</u>	additional claims fee
<u>\$130.00</u>	surcharge for oath or declaration later than 30 months.

Please stamp one of the two attached postcards with the filing date of these documents and return it to our courier, and stamp the other prepaid postcard with the filing date and unofficial application number and return it as soon as possible.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned. Applicant does not believe any fees, other than the above fees (\$1,480) are due in conjunction with this filing. However, if any additional fees are required in the present application, including any fees for extensions of time,

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ARNOLD & PORTER LLP

BT01 Rec'd PCT/PTC 04 MAR 2005

Commissioner for Patents  
Atty. Dkt.: 19006.005  
March 4, 2005  
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then the Commissioner is hereby authorized to charge such fees to Arnold & Porter LLP Deposit Account No. 50-2387, referencing matter number 19006.005. A duplicate copy of this letter is enclosed.

Respectfully submitted,

*Rachel L. Adams*

Rachel L. Adams (Reg. Atty. No. 54,660)  
David R. Marsh (Reg. Atty. No. 41,408)

Attachments